see similar files of the whole serie: http://farbe.li.tu-berlin.de/eef5.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20231001-eef2/eef2l0n1.txt /.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta

**Row 1 (left panels):**

L*/L*u CIELAB & TUBJND relative lightness L*/L*u normalized to the background lightness L*u

L*u CIELAB & TUBJND relative lightness L*/L*u normalized to the background lightness L*u

L*TUBJND= d ln [ 1 + b₁ (Y/Yₙ)] d=25.6 b=6.141 [2a]
L*CIELAB=116 (Y/Yₙ)^(1/3)−16 (Yₙ=100, 0.89 ≤ Y) [2b]
intended output: [ISO 15775]

L*r,CIELAB=1, mₙ=1.02
L*n,CIELAB=49, Yₙ=18

1.93  1.75 white
0.99 1.00
0.47 0.48 black
Yₙ=3.6, Yₙ=18  Yw=90
0.1 1 10 100 1000 Y
application range

**Row 2 panels:**

L*/L*u CIELAB & TUBJND relative lightness L*/L*u normalized to the background lightness L*u

L*TUBJND= d ln [ 1 + b₁ (Y/Yₙ)] d=25.6 b=6.141 [2a]
L*CIELAB=116 (Y/Yₙ)^(1/3)−16 (Yₙ=100, 0.89 ≤ Y) [2b]
regularity index: g*₅=99, g*₀=99, [ISO 15775]
equally spaced 9 steps in CIELAB for contrast C_Y=25:1

L*r,CIELAB=1, mₙ=1.02
L*n,CIELAB=49, Yₙ=18

device white
device black

**Row with red circles (left second block):**

regularity index: g*₅=30, g*₀=23,
nonequally spaced 9 steps
nonequall for contrast C_Y=2:1

regularity index: g*₅=88, g*₀=74,
linearized real output:
equally spaced 9 steps in CIELAB
after contrast transfer C_Y=25:1 to 2:1

**Bottom caption:**

TUB-test chart eef2; Relative lightness L*/L*u = f[log(Y)] of colour spaces
CIELAB & TUBJND, see ISO/CIE 11664-4 & CIE 230, many information (left), and less (right)